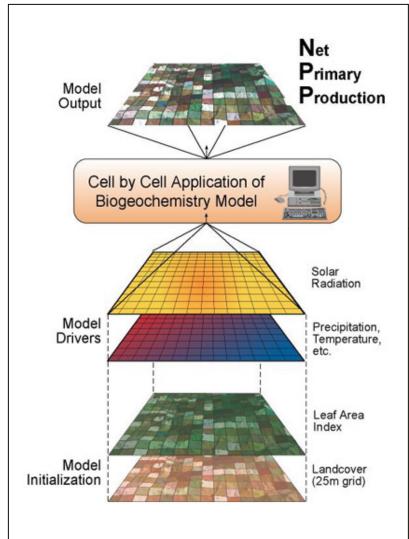
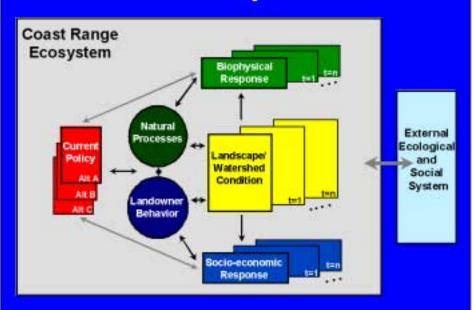
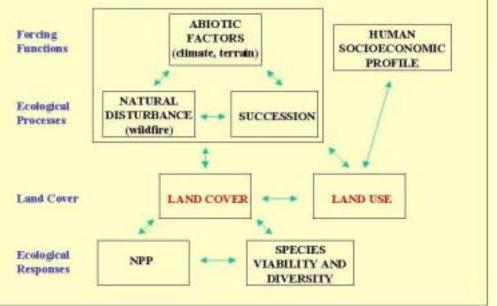


The primary role of Landsat in ecologicallyoriented studies: characterize states and trends in the land surface to parameterize models of critical processes & evaluate emergent properties

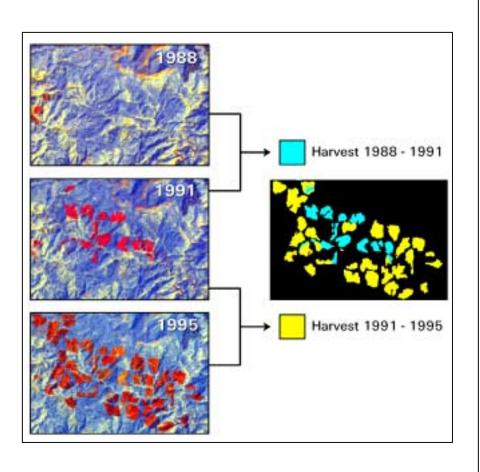


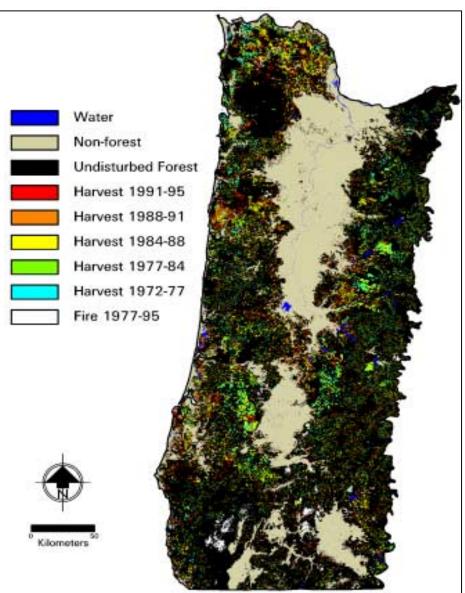
#### **CLAMS Conceptual Model**



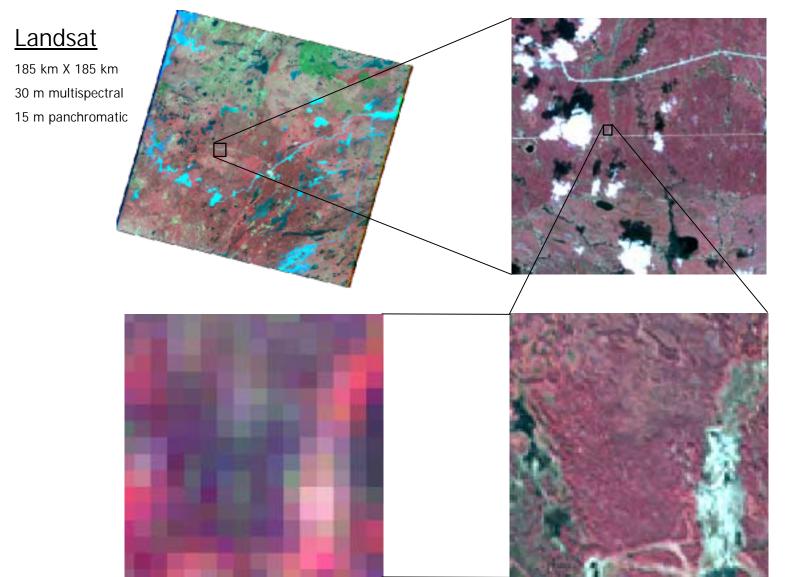


Monitoring land cover at the grain of individual management units, but over the extent at which it matters to carbon flux, biodiversity, etc.



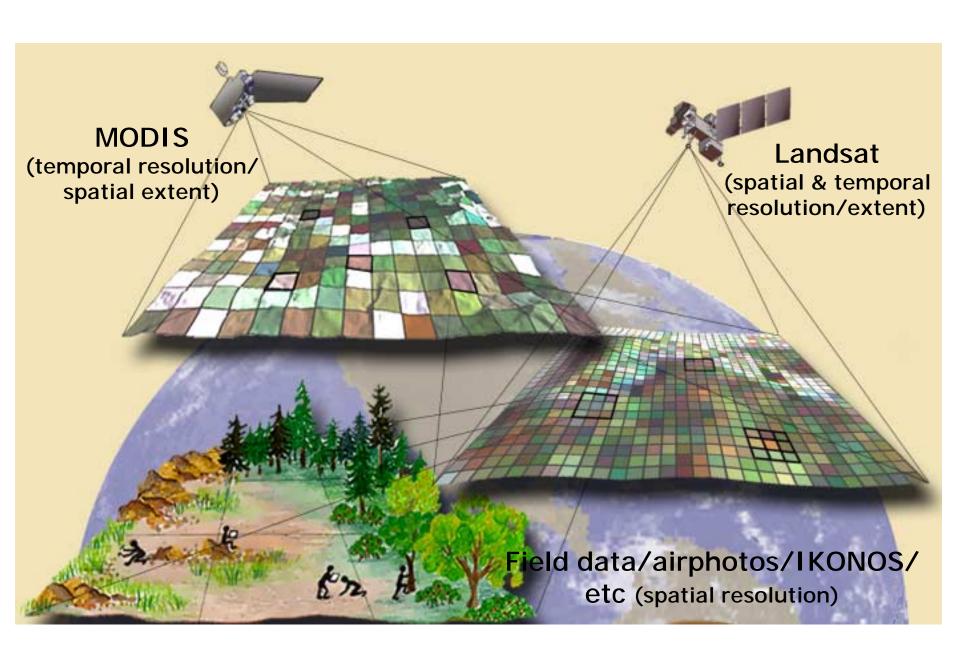


The science community would find it a *nightmare* to piece together a large number of small scenes, each under different atmospheric conditions & illumination (& view?) angles to satisfy regional modeling needs



#### **IKONOS**

11 km X 11 km4 m multispectral1 m panchromatic



#### Attributes of Landsat Critical to Science Mission

• Minimum of Landsat 7 specifications (radiometric, geometric, temporal, spectral, L1 processing, low cost, unlimited sharing among science disciplines and affiliations)

### Improvements for Science Objectives

• Better temporal resolution (2 or more concurrent satellites?), more aggressive acquisition strategy for non-US at same low cost, higher sensitivity to subtle features (>8-bit), routine terrain and atmospheric correction (L2Gt), ALI spectral bands, improved sharpening band resolution, better thermal specs

### Commercial Data Buy

• OK if status quo or better in specs, access, & cost; if science voice in future mission definition insured in a business/speculation environment

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# Closing Thoughts/Questions?

- What does continuity mean? Specs, availability, cost, etc?
- What if data become more costly or selectively available?